

Abstract of the Disclosure

5 Pre-treatment with α,β unsaturated aryl sulfones protects normal cells from the cytotoxic side effects of two classes of anticancer chemotherapeutics. Administration of a cytoprotective sulfone compound to a patient prior to anticancer chemotherapy with a mitotic phase cell cycle inhibitor or topoisomerase inhibitor reduces or eliminates the cytotoxic side effects of the anticancer agent on normal cells. The cytoprotective effect of the α,β unsaturated aryl sulfone allows the clinician to safely increasing the dosage of the anticancer chemotherapeutic.